

High Winds, Snow, & Cold Impacts

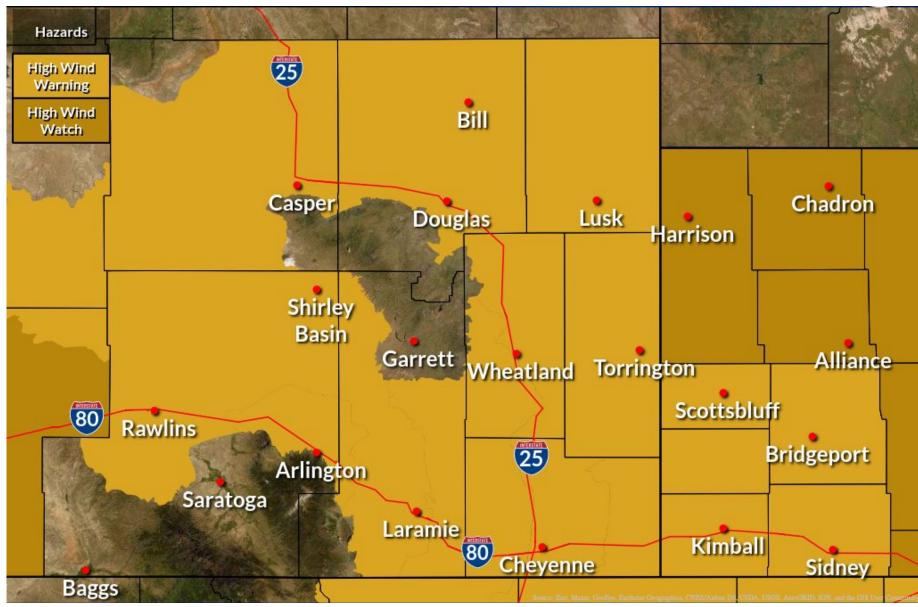
Now through Thursday Morning

Overview

- High Wind Warnings:
 - Now for Wind Prone areas and then expanding overnight & Tuesday morning through 5 PM Tuesday
 - ◆ Likely wind gusts up to 60 to 75 mph
- High Wind Watches:
 - North Nebraska Panhandle:
 - Tuesday 9 AM 5 PM
 - Possible wind gusts up to 6065 mph
- Main Wind Hazard Update:
 Numerous High Wind Warnings
 upgraded for Tuesday from previous
 High Wind Watch.

Next Scheduled Briefing

→ Tuesday Afternoon



High Wind Warnings & Watches, & Winter Storm Watches



National Weather Service Cheyenne, Wyoming



Maximum Wind Gust Forecast

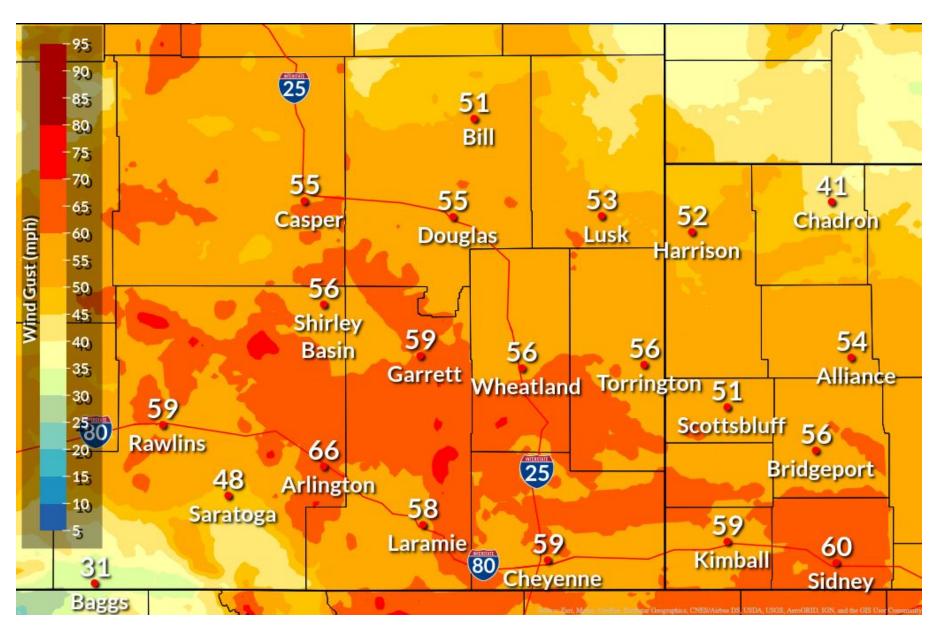
Winds already High West - Increase further this morning through late afternoon East

Key High Wind Message:

- → Wyoming:
 - Wind-prone areas and ridge tops: Sustained winds 40 to 50 mph with gusts 70 to 80 mph.
 - ♦ Elsewhere: sustained winds 30 to 40 mph with gusts 60 to 65 mph.
- → Nebraska: Sustained winds 30 to 40 mph with gusts 60 to 70 mph.
- → Likely areas of blowing snow west of the Laramie Range.
- → Refer to following slides for timing.



Be cautious if traveling with light weight, high profile vehicles.



Maximum Wind Gust Forecast Tuesday



High Wind Impact Timeline - Wyoming

January 3, 2022 5:07 PM

Graphical Hazards Matrix

| | | Tue 3 AM-6 AM | Tue 6 AM-9 AM | Tue 9 AM-12 PM | Tue 12 PM-3 PM | Tue 3 PM-6 PM |
|--------------|------------|------------------|------------------|-------------------|-------------------|------------------|
| Cheyenne | | | | | | |
| Laramie | | | | | | |
| Rawlins | | | | | | |
| Wheatland | | | | | | |
| Arlington | | | | | | |
| Impact Level | Little/Nor | ne Limi | ted Ele | vated | ignificant | Extreme |

- About This Graphic -

The hazard matrix depicts timing and magnitude of potential impacts from high winds which could lead to adverse impacts for light, high-profile vehicles and property.

Please give extra space to large vehicles or dial 511 for the latest road condition information.

High Wind Impact Timeline - Nebraska

January 3, 2022 5:07 PM

Graphical Hazards Matrix

| | 3 A | Tue M-6 AM | Tue 6 AM-9 AM | Tue 9 AM-12 PM | Tue 12 PM-3 PM | Tue 3 PM-6 PM |
|--------------|-------------|---------------|------------------|-------------------|-------------------|------------------|
| Scottsbluff | | | | | | |
| Alliance | | | | | | |
| Sidney | | | | | | |
| Kimball | | | | | | |
| Chadron | | | | | | |
| Impact Level | Little/None | Limited | d Ele | vated | ignificant | Extreme |

- About This Graphic -

The hazard matrix depicts timing and magnitude of potential impacts from high winds which could lead to adverse impacts for light, high-profile vehicles and property.

Please give extra space to large vehicles or dial 511 for the latest road condition information.



Next Round of Impactful Snow

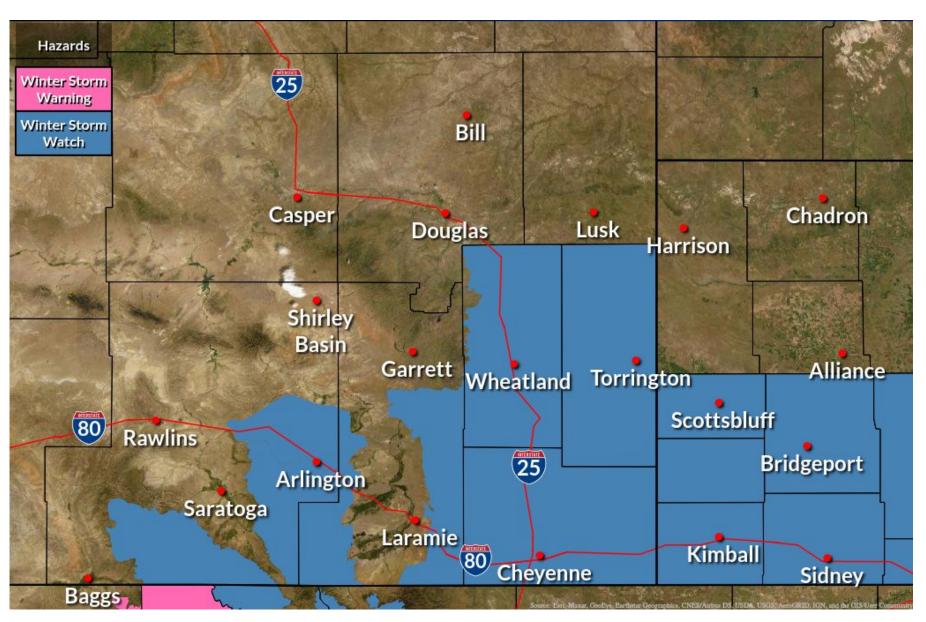
Mid-day Tuesday - Early Thursday with heaviest amounts Wednesday

Overview

→ Winter Storm Watches:

- ♦ Valid from 11am Tuesday to 11am Thursday for Snowys and Sierra Madres.
- ♦ Valid from 8am Wednesday to 11am Thursday for the I-80 Summit, High Plains of Wyoming, and central/southern Nebraska Panhandle.
- Main Winter Storm Hazard
 Update: Winter Storm Watch was expanded across portions on the Wyoming High Plains and into central and southern Nebraska on this update.

Main Impact window: Wednesday Afternoon



Winter Storm Watches across WY & NE





Snowfall Amount Chances

Tuesday Afternoon through Wednesday Night

Winter Storm Watch Details



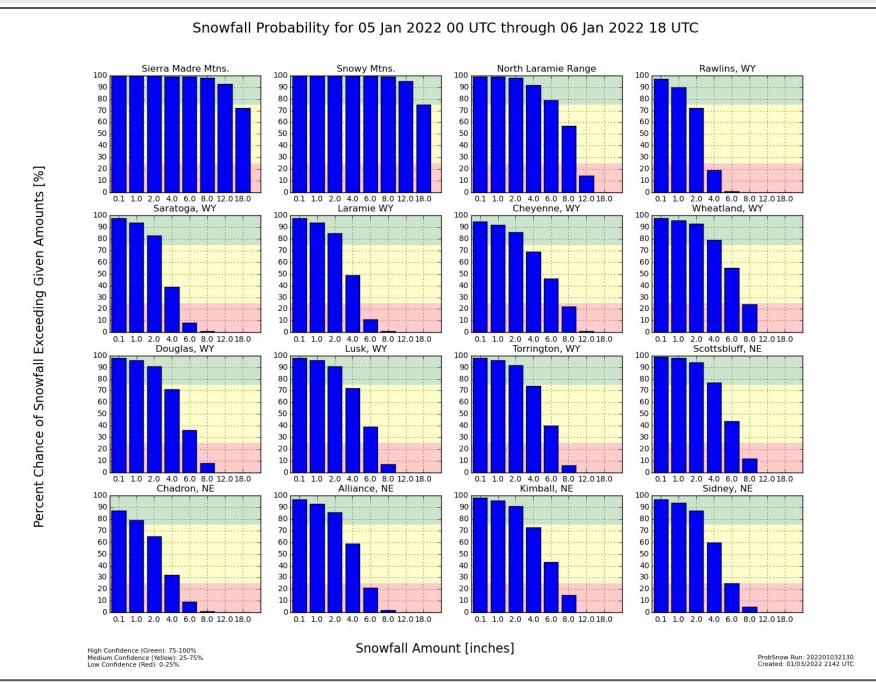
11 AM Tuesday to 11 AM Thursday for Snowy and Sierra Madre Mountains 8am Wednesday to 11am Thursday for Summit and High Plains of WY/NE



Heavy snow and blowing snow could cause campers and recreationists to become lost or disoriented in the mountains.

Quick Forecast

- 1 to 2 feet of snowfall possible in Snowy & Sierra Madre Mountains
- See graphic on right for percent chances of snowfall amounts for select cities
 Tuesday night through Thursday morning.





Most Likely Forecast Snowfall

Forecast Confidence Levels

Snow Amounts

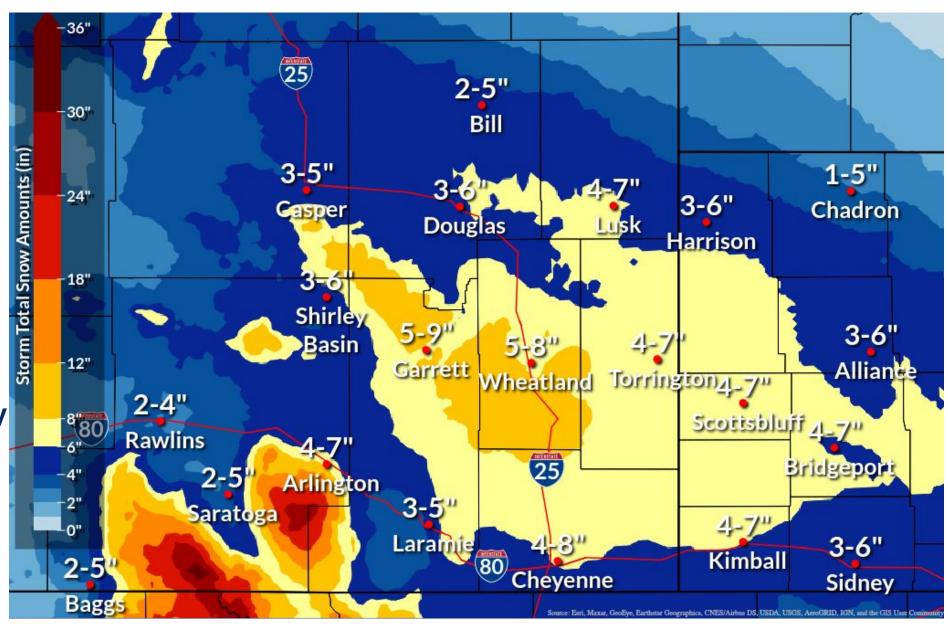
Low Medium High

Timing

Low Medium High

Key Snow Points:

- → Snow will begin across the mountains Tuesday morning with increasing rates throughout the day Tuesday.
- → Snow will spread east of the Laramie Range, including the High Plains, by Wednesday morning, ending by early Thursday morning.
- → The heaviest snow will likely be Wednesday afternoon.



Forecast Snow Totals Tuesday - Wednesday





Very Cold Wind Chills

Wind Chills Plummet Wednesday Night into Thursday Morning

Wind Chill Details



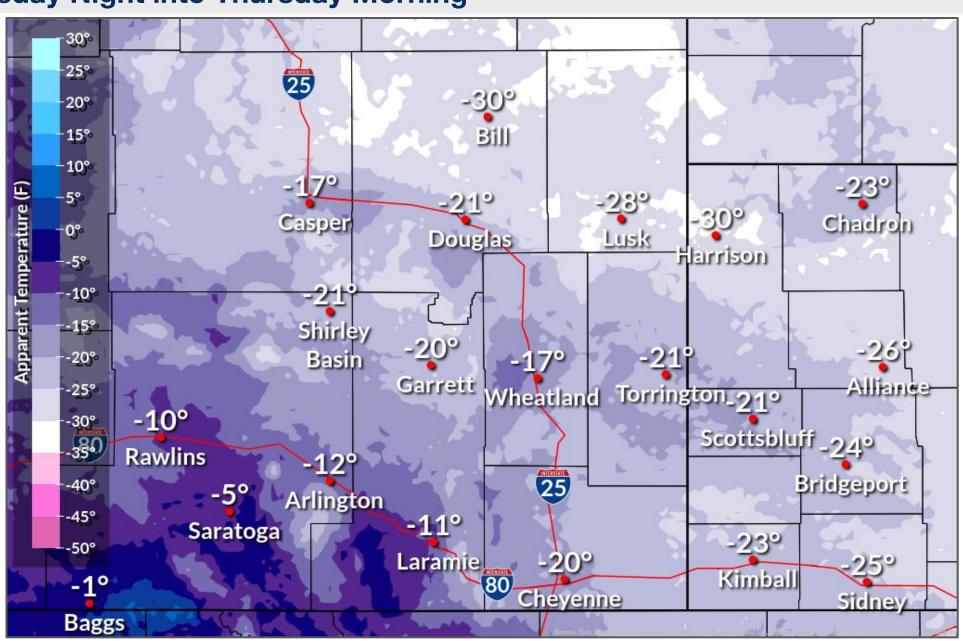
Wednesday Night - Thursday Morning



Very low wind chills behind an arctic cold front Wednesday night through Thursday morning.

Quick Forecast

- West of the Laramie Range: Wind chills
 -9 to -25 degrees.
- East of the Laramie Range: Wind chills
 -18 to -30 degrees.
- Avoid long periods outdoors due to risk of frostbite. Wear warm layers. Be sure to care for livestock appropriately.



Wind Chills Wednesday Night - Thursday Morning

